

WHAT IS CLAIMED IS:

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1. An optical signal receiver comprising:
an opto-electric converter for converting an
optical signal transmitted from a remotely opposed
transmitter into an electric signal;
a reproduction circuit for reproducing a data
signal from an output of said opto-electric converter;
a fixed signal generation circuit for generating a
fixed signal having a logic level fixed to 0 or 1;
a switch for selectively outputting either the
data signal reproduced by said reproduction circuit or
the fixed signal generated by said fixed signal
generation circuit; and
a control circuit for detecting an abnormal state
of optical signal transmission and controlling said
switch,
said control circuit being adapted to output the
fixed signal from said switch, when it detects the
abnormal state while outputting the data signal from
said switch.

2. An optical signal receiver according to claim
1, wherein

the optical signal includes a main signal and an
auxiliary signal giving a DC component level and said
control circuit comprises means for detecting an AC
component level of the optical signal, means for

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3. An optical signal receiver according to claim 2, wherein

said means for detecting the AC component level of the optical signal comprises a first filter for extracting the main signal from the electric signal and a main signal detection circuit for transforming an amplitude level of the main signal extracted by the first filter into a voltage and said means for detecting the DC component level of the optical signal comprises a second filter for extracting the auxiliary signal from the electric signal and an auxiliary signal detection circuit for transforming an amplitude level of the auxiliary signal extracted by the second filter into a voltage.

said reproduction circuit comprises a wave shaping circuit for reproducing the data signal on the basis of the clock component extracted by said clock extraction circuit and the electric signal outputted from said opto-electric converter.

said clock extraction circuit comprises a phase comparator, a voltage control oscillator adapted to receive an output of the phase comparator and a feedback loop for feeding back an output of the voltage control oscillator to the phase comparator by way of a loop filter.

6. An optical signal receiver according to claim 2, wherein

20 said control circuit causes said switch to be switched to output the data signal when the AC component level and the DC component level exceed the respective predetermined threshold values and said clock extraction circuit detects the synchronized state

25 while said switch is outputting the fixed signal.

7/ An optical signal receiver according to claim

said control circuit causes said switch to be switched to output the data signal when the AC component level and the DC component level exceed the respective predetermined threshold values and said clock extraction circuit detects the synchronized state at the end of a predetermined period of time during which said switch keeps on outputting the fixed signal.

lenses for converging the optical signal to said opto-electric converter.

a transmitter for transmitting an optical signal;
and

10. An optical space transmission system according to claim 9, wherein

said transmitter comprises a main signal input

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